

REMARKS

This Preliminary Amendment revises claims 1 and 4 in accordance with the Amendment under PCT Article 34 that was made in the Japanese language during the international phase of the subject international application. For the Examiner's convenience, claim 1 is amended in the last three paragraphs of this claim, and claim 4 is almost completely replaced with new language.

No new matter has been added.

Entry of this amendment and favorable consideration of this application are respectfully requested.

Respectfully submitted,

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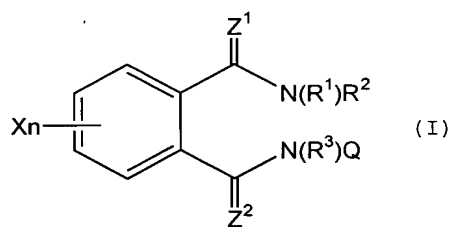
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APPENDIX SHOWING REVISIONS OF CLAIMS

Proposed Amendments To Claims 1 and 4 Showing Deletions And Insertions.

Claim 1. (Amended) A phthalamide derivative represented by the following general formula (I):



wherein R^1 , R^2 and R^3 , which may be same or different, represent hydrogen atom, C_3 - C_6 cycloalkyl group, halo C_3 - C_6 cycloalkyl group or $-A^1-(G)_r$ (in this formula, A^1 represents C_1 - C_8 alkylene group, C_3 - C_6 alkenylene group or C_3 - C_6 alkynylene group; G , which may be same or different, represents hydrogen atom, halogen atom, cyano group, nitro group, halo C_1 - C_6 alkyl group, C_3 - C_6 cycloalkyl group, halo C_3 - C_6 cycloalkyl group, C_1 - C_6 alkoxy carbonyl group, di(C_1 - C_6) alkoxyphosphoryl group in which the (C_1 - C_6) alkoxy groups may be same or different, di(C_1 - C_6) alkoxythiophosphoryl group in which the (C_1 - C_6) alkoxy groups may be same or different, diphenylphosphino group, diphenylphosphono group, phenyl group, substituted phenyl group having at least one, same or different substituents selected from the group consisting of halogen atom, C_1 - C_6 alkyl group, halo C_1 - C_6 alkyl group, C_1 - C_6 alkoxy group, halo C_1 - C_6 alkoxy group, C_1 - C_6 alkylthio group, halo C_1 - C_6 alkylthio group, C_1 - C_6 alkylsulfinyl group, halo C_1 - C_6 alkylsulfinyl group, C_1 - C_6 alkylsulfonyl group and halo C_1 - C_6 alkylsulfonyl group, heterocyclic group (as used

herein, the term "heterocyclic group" means pyridyl group, pyridine-N-oxide group, pyrimidinyl group, furyl group, tetrahydrofuryl group, thienyl group, tetrahydrothienyl group, tetrahydropyranyl group, oxazolyl group, isoxazolyl group, oxadiazolyl group, thiazolyl group, isothiazolyl group, thiadiazolyl group, imidazolyl group, triazolyl group or pyrazolyl group), substituted heterocyclic group (the term heterocyclic group is as defined above) having at least one, same or different substituents selected from the group consisting of halogen atom, C₁-C₆ alkyl group, halo C₁-C₆ alkyl group, C₁-C₆ alkoxy group, halo C₁-C₆ alkoxy group, C₁-C₆ alkylthio group, halo C₁-C₆ alkylthio group, C₁-C₆ alkylsulfinyl group, halo C₁-C₆ alkylsulfinyl group, C₁-C₆ alkylsulfonyl group and halo C₁-C₆ alkylsulfonyl group, or -Z³-R⁴ (in this formula, Z³ represents -O-, -S-, -SO-, -SO₂-, -N(R⁵)- (in this formula, R⁵ represents hydrogen atom, C₁-C₆ alkylcarbonyl group, halo C₁-C₆ alkylcarbonyl group, C₁-C₆ alkoxy carbonyl group, phenylcarbonyl group, substituted phenylcarbonyl group having at least one, same or different substituents selected from the group consisting of halogen atom, C₁-C₆ alkyl group, halo C₁-C₆ alkyl group, C₁-C₆ alkoxy group, halo C₁-C₆ alkoxy group, C₁-C₆ alkylthio group, halo C₁-C₆ alkylthio group, C₁-C₆ alkylsulfinyl group, halo C₁-C₆ alkylsulfinyl group, C₁-C₆ alkylsulfonyl group and halo C₁-C₆ alkylsulfonyl group, phenyl C₁-C₄ alkoxy carbonyl group, substituted phenyl C₁-C₄ alkoxy carbonyl group having, on the ring thereof, at least one, same or different substituents selected from the group consisting of halogen atom, C₁-C₆ alkyl group, halo C₁-C₆ alkyl group, C₁-C₆ alkoxy group, halo C₁-C₆ alkoxy group, C₁-C₆ alkylthio group, halo C₁-C₆ alkylthio group, C₁-C₆ alkylsulfinyl group, halo C₁-C₆ alkylsulfinyl group, C₁-C₆ alkylsulfonyl group and halo C₁-C₆ alkylsulfonyl group or halo C₁-C₆ alkylsulfonyl group), -C(=O)- or -C(=NOR⁶)- (in this formula, R⁶ represents hydrogen atom, C₁-C₆ alkyl group, halo C₁-C₆ alkyl group, C₃-C₆ alkenyl group, halo

C₃-C₆ alkenyl group, C₃-C₆ alkynyl group, C₃-C₆ cycloalkyl group, phenyl C₁-C₄ alkyl group, or substituted phenyl C₁-C₄ alkyl group having, on the ring thereof, at least one, same or different substituents selected from the group consisting of halogen atom, C₁-C₆ alkyl group, halo C₁-C₆ alkyl group, C₁-C₆ alkoxy group, halo C₁-C₆ alkoxy group, C₁-C₆ alkylthio group, halo C₁-C₆ alkylthio group, C₁-C₆ alkylsulfinyl group, halo C₁-C₆ alkylsulfinyl group, C₁-C₆ alkylsulfonyl group and halo C₁-C₆ alkylsulfonyl group), and R⁴ represents hydrogen atom, C₁-C₆ alkyl group, halo C₁-C₆ alkyl group, C₃-C₆ alkenyl group, halo C₃-C₆ alkenyl group, C₃-C₆ alkynyl group, halo C₃-C₆ alkynyl group, C₃-C₆ cycloalkyl group, halo C₃-C₆ cycloalkyl group, C₁-C₆ alkoxy C₁-C₆ alkyl group, C₁-C₆ alkylthio C₁-C₆ alkyl group, formyl group, C₁-C₆ alkylcarbonyl group, halo C₁-C₆ alkylcarbonyl group, C₁-C₆ alkoxy carbonyl group, mono (C₁-C₆) alkylaminocarbonyl group, di(C₁-C₆) alkylaminocarbonyl group in which the (C₁-C₆) alkyl groups may be same or different, mono(C₁-C₆) alkylaminothiocarbonyl group, di(C₁-C₆) alkylaminothiocarbonyl group in which the (C₁-C₆) alkyl groups may be same or different, di(C₁-C₆) alkoxyphosphoryl group in which the (C₁-C₆) alkoxy groups may be same or different, di(C₁-C₆) alkoxythiophosphoryl group in which the (C₁-C₆) alkoxy groups may be same or different, phenyl group, substituted phenyl group having at least one, same or different substituents selected from the group consisting of halogen atom, C₁-C₆ alkyl group, halo C₁-C₆ alkyl group, C₁-C₆ alkoxy group, halo C₁-C₆ alkoxy group, C₁-C₆ alkylthio group, halo C₁-C₆ alkylthio group, C₁-C₆ alkylsulfinyl group, halo C₁-C₆ alkylsulfinyl group, C₁-C₆ alkylsulfonyl group and halo C₁-C₆ alkylsulfonyl group, phenyl C₁-C₄ alkyl group, substituted phenyl (C₁-C₄) alkyl group having, on the ring thereof, at least one, same or different substituents selected from the group consisting of halogen atom, C₁-C₆ alkyl group, halo C₁-C₆ alkyl group, C₁-C₆ alkoxy group, halo C₁-C₆ alkoxy group, C₁-C₆ alkylthio group, halo

C₁-C₆ alkylthio group, C₁-C₆ alkylsulfinyl group, halo C₁-C₆ alkylsulfinyl group, C₁-C₆ alkylsulfonyl group and halo C₁-C₆ alkylsulfonyl group, heterocyclic group (the term heterocyclic group is as defined above), or substituted heterocyclic group (the term heterocyclic group is as defined above) having at least one, same or different substituents selected from the group consisting of halogen atom, C₁-C₆ alkyl group, halo C₁-C₆ alkyl group, C₁-C₆ alkoxy group, halo C₁-C₆ alkoxy group, C₁-C₆ alkylthio group, halo C₁-C₆ alkylthio group, C₁-C₆ alkylsulfinyl group, halo C₁-C₆ alkylsulfinyl group, C₁-C₆ alkylsulfonyl group and halo C₁-C₆ alkylsulfonyl group); and r represents an integer of 1 to 4); further, R¹ and R² may be taken conjointly to form 4- to 7-membered rings which may be intercepted by 1 to 3, same or different oxygen atom, sulfur atom or nitrogen atom;

X, which may be same or different, represents halogen atom, cyano group, nitro group, C₃-C₆ cycloalkyl group, halo C₃-C₆ cycloalkyl group, phenyl group, substituted phenyl group having at least one, same or different substituents selected from the group consisting of halogen atom, C₁-C₆ alkyl group, halo C₁-C₆ alkyl group, C₁-C₆ alkoxy group, halo C₁-C₆ alkoxy group, C₁-C₆ alkylthio group, halo C₁-C₆ alkylthio group, C₁-C₆ alkylsulfinyl group, halo C₁-C₆ alkylsulfinyl group, C₁-C₆ alkylsulfonyl group and halo C₁-C₆ alkylsulfonyl group, heterocyclic group (the term heterocyclic group is as defined above), substituted heterocyclic group (the term heterocyclic group is as defined above) having at least one, same or different substituents selected from the group consisting of halogen atom, C₁-C₆ alkyl group, halo C₁-C₆ alkyl group, C₁-C₆ alkoxy group, halo C₁-C₆ alkoxy group, C₁-C₆ alkylthio group, halo C₁-C₆ alkylthio group, C₁-C₆ alkylsulfinyl group, halo C₁-C₆ alkylsulfinyl group, C₁-C₆ alkylsulfonyl group and halo C₁-C₆ alkylsulfonyl group, or -A²-R⁷ [in this formula, A² represents -O-, -S-, -SO-, -SO₂-, -NR⁸- (in this formula R⁸ represents

hydrogen atom, C₁-C₆ alkylcarbonyl group, halo C₁-C₆ alkylcarbonyl group, C₁-C₆ alkoxy carbonyl group, phenylcarbonyl group, substituted phenylcarbonyl group having at least one, same or different substituents selected from the group consisting of halogen atom, C₁-C₆ alkyl group, halo C₁-C₆ alkyl group, C₁-C₆ alkoxy group, halo C₁-C₆ alkoxy group, C₁-C₆ alkylthio group, halo C₁-C₆ alkylthio group, C₁-C₆ alkylsulfinyl group, halo C₁-C₆ alkylsulfinyl group, C₁-C₆ alkylsulfonyl group and halo C₁-C₆ alkylsulfonyl group, phenyl C₁-C₄ alkoxy carbonyl group or substituted phenyl C₁-C₄ alkoxy carbonyl group having, on the ring thereof, at least one, same or different substituents selected from the group consisting of halogen atom, C₁-C₆ alkyl group, halo C₁-C₆ alkyl group, C₁-C₆ alkoxy group, halo C₁-C₆ alkoxy group, C₁-C₆ alkylthio group, halo C₁-C₆ alkylthio group, C₁-C₆ alkylsulfinyl group, halo C₁-C₆ alkylsulfinyl group, C₁-C₆ alkylsulfonyl group and halo C₁-C₆ alkylsulfonyl group), -C(=O)-, -C(=NOR⁶)- (in this formula, R⁶ is as defined above), C₁-C₆ alkylene group, halo C₁-C₆ alkylene group, C₂-C₆ alkenylene group, halo C₂-C₆ alkenylene group, C₂-C₆ alkynylene group or halo C₃-C₆ alkynylene group; and

(1) in cases where A² represents -O-, -S-, -SO-, -SO₂- or -NR⁸- (in this formula, R⁸ is as defined above), R⁷ represents hydrogen atom, halo C₃-C₆ cycloalkyl group, halo C₃-C₆ cycloalkenyl group, phenyl group, substituted phenyl group having at least one, same or different substituents selected from the group consisting of halogen atom, C₁-C₆ alkyl group, halo C₁-C₆ alkyl group, C₁-C₆ alkoxy group, halo C₁-C₆ alkoxy group, C₁-C₆ alkylthio group, halo C₁-C₆ alkylthio group, C₁-C₆ alkylsulfinyl group, halo C₁-C₆ alkylsulfinyl group, C₁-C₆ alkylsulfonyl group and halo C₁-C₆ alkylsulfonyl group, heterocyclic group (the term heterocyclic group is as defined above), substituted heterocyclic group (the term heterocyclic group is as defined above) having at least one, same or different substituents selected from the group

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alkylsulfinyl group, halo C₁-C₆ alkylsulfinyl group, C₁-C₆ alkylsulfonyl group and halo C₁-C₆ alkylsulfonyl group));

(2) in cases where A² represents -C(=O)- or -C(=NOR⁶)- (in this formula, R⁶ is as defined above), R⁷ represents hydrogen atom, C₁-C₆ alkyl group, halo C₁-C₆ alkyl group, C₂-C₆ alkenyl group, halo C₂-C₆ alkenyl group, C₃-C₆ cycloalkyl group, halo C₃-C₆ cycloalkyl group, C₁-C₆ alkoxy group, C₁-C₆ alkylthio group, mono(C₁-C₆) alkylamino group, di(C₁-C₆) alkylamino group in which the (C₁-C₆) alkyl groups may be same or different, phenyl group, substituted phenyl group having at least one, same or different substituents selected from the group consisting of halogen atom, C₁-C₆ alkyl group, halo C₁-C₆ alkyl group, C₁-C₆ alkoxy group, halo C₁-C₆ alkoxy group, C₁-C₆ alkylthio group, halo C₁-C₆ alkylthio group, C₁-C₆ alkylsulfinyl group, halo C₁-C₆ alkylsulfinyl group, C₁-C₆ alkylsulfonyl group and halo C₁-C₆ alkylsulfonyl group, phenylamino group, substituted phenylamino group having, on the ring thereof, at least one, same or different substituents selected from the group consisting of halogen atom, C₁-C₆ alkyl group, halo C₁-C₆ alkyl group, C₁-C₆ alkoxy group, halo C₁-C₆ alkoxy group, C₁-C₆ alkylthio group, halo C₁-C₆ alkylthio group, C₁-C₆ alkylsulfinyl group, halo C₁-C₆ alkylsulfinyl group, C₁-C₆ alkylsulfonyl group and halo C₁-C₆ alkylsulfonyl group, heterocyclic group (the term heterocyclic group is as defined above), or substituted heterocyclic group (the term heterocyclic group is as defined above) having at least one, same or different substituents selected from the group consisting of halogen atom, C₁-C₆ alkyl group, halo C₁-C₆ alkyl group, C₁-C₆ alkoxy group, halo C₁-C₆ alkoxy group, C₁-C₆ alkylthio group, halo C₁-C₆ alkylthio group, C₁-C₆ alkylsulfinyl group, halo C₁-C₆ alkylsulfinyl group, C₁-C₆ alkylsulfonyl group and halo C₁-C₆ alkylsulfonyl group; and

(3) in cases where A² represents C₁-C₆ alkylene group, halo C₁-C₆

alkylene group, C₂-C₆ alkenylene group, halo C₂-C₆ alkenylene group, C₂-C₆ alkynylene group or halo C₃-C₆ alkynylene group, R⁷ represents hydrogen atom, halogen atom, C₃-C₆ cycloalkyl group, halo C₃-C₆ cycloalkyl group, C₁-C₆ alkoxy carbonyl group, tri(C₁-C₆) alkylsilyl group in which the (C₁-C₆) alkyl groups may be same or different, phenyl group, substituted phenyl group having at least one, same or different substituents selected from the group consisting of halogen atom, C₁-C₆ alkyl group, halo C₁-C₆ alkyl group, C₁-C₆ alkoxy group, halo C₁-C₆ alkoxy group, C₁-C₆ alkylthio group, halo C₁-C₆ alkylthio group, C₁-C₆ alkylsulfinyl group, halo C₁-C₆ alkylsulfinyl group, C₁-C₆ alkylsulfonyl group and halo C₁-C₆ alkylsulfonyl group, heterocyclic group (the term heterocyclic group is as defined above), substituted heterocyclic group (the term heterocyclic group is as defined above) having at least one, same or different substituents selected from the group consisting of halogen atom, C₁-C₆ alkyl group, halo C₁-C₆ alkyl group, C₁-C₆ alkoxy group, halo C₁-C₆ alkoxy group, C₁-C₆ alkylthio group, halo C₁-C₆ alkylthio group, C₁-C₆ alkylsulfinyl group, halo C₁-C₆ alkylsulfinyl group, C₁-C₆ alkylsulfonyl group and halo C₁-C₆ alkylsulfonyl group, or -A⁵-R¹¹ (in this formula, A⁵ represents -O-, -S-, -SO- or -SO₂-; and R¹¹ represents C₃-C₆ cycloalkyl group, halo C₃-C₆ cycloalkyl group, phenyl group, substituted phenyl group having at least one, same or different substituents selected from the group consisting of halogen atom, C₁-C₆ alkyl group, halo C₁-C₆ alkyl group, C₁-C₆ alkoxy group, halo C₁-C₆ alkoxy group, C₁-C₆ alkylthio group, halo C₁-C₆ alkylthio group, C₁-C₆ alkylsulfinyl group, halo C₁-C₆ alkylsulfinyl group, C₁-C₆ alkylsulfonyl group and halo C₁-C₆ alkylsulfonyl group, heterocyclic group (the term heterocyclic group is as defined above), substituted heterocyclic group (the term heterocyclic group is as defined above) having at least one, same or different substituents selected from the group consisting of halogen atom, C₁-C₆ alkyl group,

halo C₁-C₆ alkyl group, C₁-C₆ alkoxy group, halo C₁-C₆ alkoxy group, C₁-C₆ alkylthio group, halo C₁-C₆ alkylthio group, C₁-C₆ alkylsulfinyl group, halo C₁-C₆ alkylsulfinyl group, C₁-C₆ alkylsulfonyl group and halo C₁-C₆ alkylsulfonyl group, or -A⁶-R¹² (in this formula, A⁶ represents C₁-C₆ alkylene group, halo C₁-C₆ alkylene group, C₂-C₆ alkenylene group, halo C₂-C₆ alkenylene group, C₂-C₆ alkynylene group or halo C₃-C₆ alkynylene group; and R¹² represents hydrogen atom, halogen atom, C₃-C₆ cycloalkyl group, halo C₃-C₆ cycloalkyl group, C₁-C₆ alkoxy group, halo C₁-C₆ alkoxy group, C₁-C₆ alkylthio group, halo C₁-C₆ alkylthio group, C₁-C₆ alkylsulfinyl group, halo C₁-C₆ alkylsulfinyl group, C₁-C₆ alkylsulfonyl group, halo C₁-C₆ alkylsulfonyl group, phenyl group, substituted phenyl group having at least one, same or different substituents selected from the group consisting of halogen atom, C₁-C₆ alkyl group, halo C₁-C₆ alkyl group, C₁-C₆ alkoxy group, halo C₁-C₆ alkoxy group, C₁-C₆ alkylthio group, halo C₁-C₆ alkylthio group, C₁-C₆ alkylsulfinyl group, halo C₁-C₆ alkylsulfinyl group, C₁-C₆ alkylsulfonyl group and halo C₁-C₆ alkylsulfonyl group, phenoxy group, substituted phenoxy group having at least one, same or different substituents selected from the group consisting of halogen atom, C₁-C₆ alkyl group, halo C₁-C₆ alkyl group, C₁-C₆ alkoxy group, halo C₁-C₆ alkoxy group, C₁-C₆ alkylthio group, halo C₁-C₆ alkylthio group, C₁-C₆ alkylsulfinyl group, halo C₁-C₆ alkylsulfinyl group, C₁-C₆ alkylsulfonyl group and halo C₁-C₆ alkylsulfonyl group, phenylthio group, substituted phenylthio group having at least one, same or different substituents selected from the group consisting of halogen atom, C₁-C₆ alkyl group, halo C₁-C₆ alkyl group, C₁-C₆ alkoxy group, halo C₁-C₆ alkoxy group, C₁-C₆ alkylthio group, halo C₁-C₆ alkylthio group, C₁-C₆ alkylsulfinyl group, halo C₁-C₆ alkylsulfinyl group, C₁-C₆ alkylsulfonyl group and halo C₁-C₆ alkylsulfonyl group, heterocyclic group (the term heterocyclic group is as defined above), or substituted heterocyclic group (the term heterocyclic

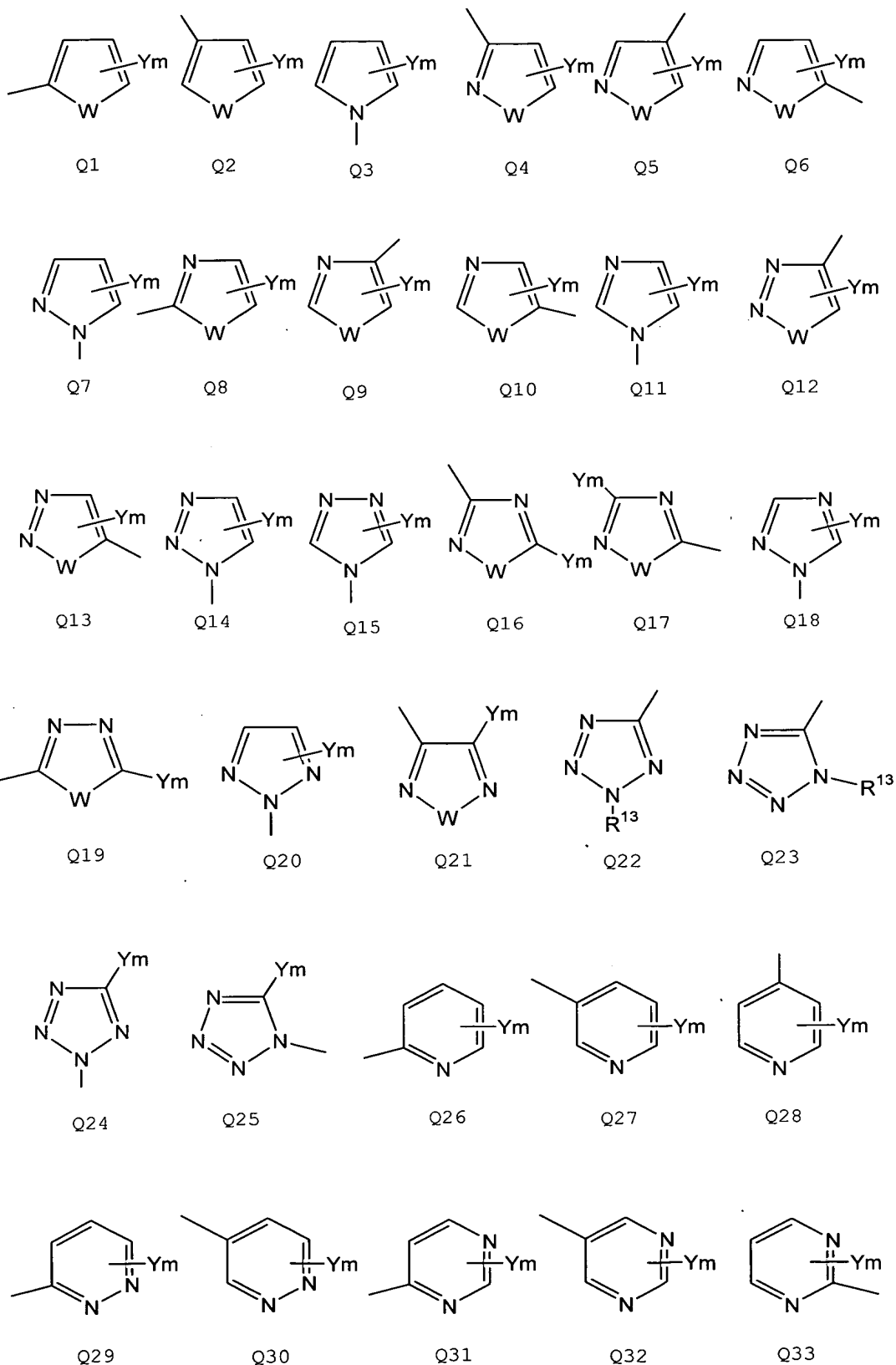
group is as defined above) having at least one, same or different substituents selected from the group consisting of halogen atom, C₁-C₆ alkyl group, halo C₁-C₆ alkyl group, C₁-C₆ alkoxy group, halo C₁-C₆ alkoxy group, C₁-C₆ alkylthio group, halo C₁-C₆ alkylthio group, C₁-C₆ alkylsulfinyl group, halo C₁-C₆ alkylsulfinyl group, C₁-C₆ alkylsulfonyl group and halo C₁-C₆ alkylsulfonyl group]]);

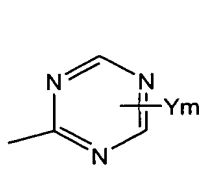
n represents an integer of 0 to 4; further, X may be taken conjointly with the adjacent carbon atom on the phenyl ring to form a fused ring (as used herein, the term fused ring means naphthalene, tetrahydronaphthalene, indene, indane, quinoline, quinazoline, chroman, isochroman, indole, indoline, benzodioxane, benzodioxole, benzofuran, dihydrobenzofuran, benzothiophene, dihydrobenzothiophene, benzoxazole, benzothiazole, benzimidazole or indazole), and said fused ring may have at least one, same or different substituents selected from the group consisting of halogen atom, C₁-C₆ alkyl group, halo C₁-C₆ alkyl group, C₁-C₆ alkoxy group, halo C₁-C₆ alkoxy group, C₁-C₆ alkylthio group, halo C₁-C₆ alkylthio group, C₁-C₆ alkylsulfinyl group, halo C₁-C₆ alkylsulfinyl group, C₁-C₆ alkylsulfonyl group, halo C₁-C₆ alkylsulfonyl group, phenyl group, substituted phenyl group having at least one, same or different substituents selected from the group consisting of halogen atom, C₁-C₆ alkyl group, halo C₁-C₆ alkyl group, C₁-C₆ alkoxy group, halo C₁-C₆ alkoxy group, C₁-C₆ alkylthio group, halo C₁-C₆ alkylthio group, C₁-C₆ alkylsulfinyl group, halo C₁-C₆ alkylsulfinyl group, C₁-C₆ alkylsulfonyl group and halo C₁-C₆ alkylsulfonyl group, heterocyclic group (the term heterocyclic group is as defined above), and substituted heterocyclic group (the term heterocyclic group is as defined above) having at least one, same or different substituents selected from the group consisting of halogen atom, C₁-C₆ alkyl group, halo C₁-C₆ alkyl group, C₁-C₆ alkoxy group, halo C₁-C₆ alkoxy group, C₁-C₆ alkylthio group, halo C₁-C₆ alkylthio

group, C₁-C₆ alkylsulfinyl group, halo C₁-C₆ alkylsulfinyl group, C₁-C₆ alkylsulfonyl group and halo C₁-C₆ alkylsulfonyl group;

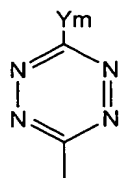
Q represents an N-, S- or O-containing, optionally substituted, heterocyclic group or fused heterocyclic group, selected from the group consisting of the following formulas Q1 to Q60;

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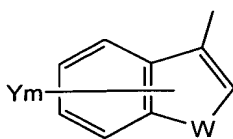




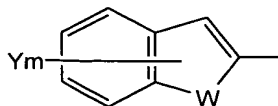
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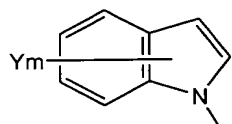
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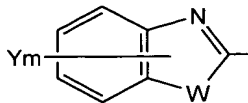
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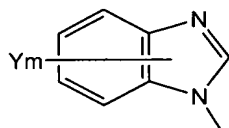
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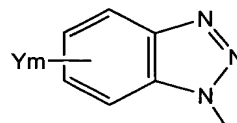
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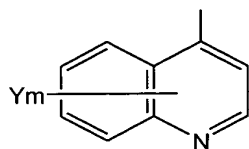
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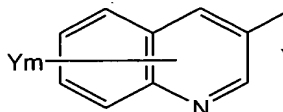
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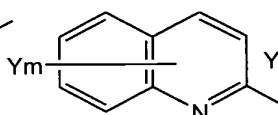
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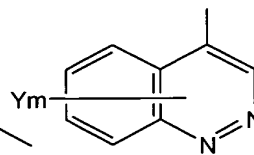
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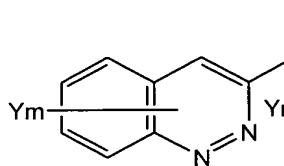
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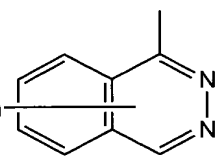
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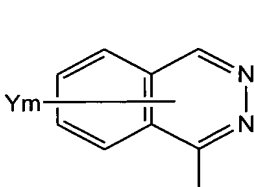
Q49



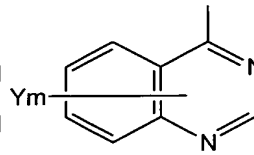
Q50



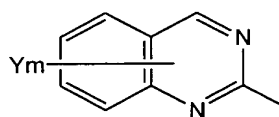
Q51



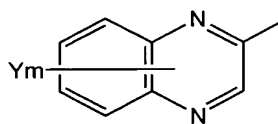
Q52



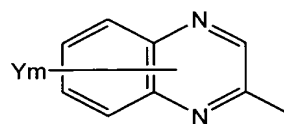
Q53



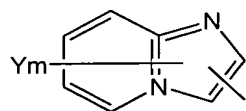
Q54



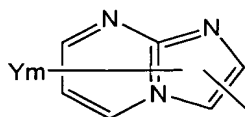
Q55



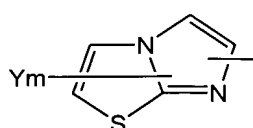
Q56



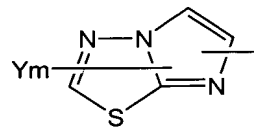
Q57



Q58



Q59



Q60

(in these formulas, Y, which may be same or different, represents halogen atom, cyano group, nitro group, halo C₃-C₆ cycloalkyl group, phenyl group, substituted phenyl group having at least one, same or different substituents selected from the group consisting of halogen atom, C₁-C₆ alkyl group, halo C₁-C₆ alkyl group, C₁-C₆ alkoxy group, halo C₁-C₆ alkoxy group, C₁-C₆ alkylthio group, halo C₁-C₆ alkylthio group, C₁-C₆ alkylsulfinyl group, halo C₁-C₆ alkylsulfinyl group, C₁-C₆ alkylsulfonyl group and halo C₁-C₆ alkylsulfonyl group, heterocyclic group (the term heterocyclic group is as defined above), substituted heterocyclic group (the term heterocyclic group is as defined above) having at least one, same or different substituents selected from the group consisting of halogen atom, C₁-C₆ alkyl group, halo C₁-C₆ alkyl group, C₁-C₆ alkoxy group, halo C₁-C₆ alkoxy group, C₁-C₆ alkylthio group, halo C₁-C₆ alkylthio group, C₁-C₆ alkylsulfinyl group, halo C₁-C₆ alkylsulfinyl group, C₁-C₆ alkylsulfonyl group and halo C₁-C₆ alkylsulfonyl group, or -A²-R⁷ (in this formula, A² and R⁷ are as defined above); m represents an integer of 0 to 6; R¹³ in the formula Q22 and Q23 represents hydrogen atom, C₁-C₆ alkyl group, halo C₁-C₆ alkyl group, C₃-C₆ alkenyl group, halo C₃-C₆ alkenyl group, C₃-C₆ alkynyl group, halo C₃-C₆ alkynyl group, C₃-C₆ cycloalkyl group, halo C₃-C₆ cycloalkyl group, C₁-C₆ alkoxy C₁-C₆ alkyl group, halo C₁-C₆ alkoxy C₁-C₆ alkyl group, C₁-C₆ alkylthio C₁-C₆ alkyl group, halo C₁-C₆ alkylthio C₁-C₆ alkyl group, C₁-C₆ alkylsulfinyl C₁-C₆ alkyl group, halo C₁-C₆ alkylsulfinyl C₁-C₆ alkyl group, C₁-C₆ alkylsulfonyl C₁-C₆ alkyl group, halo C₁-C₆ alkylsulfonyl C₁-C₆ alkyl group, C₁-C₆ alkylsulfonyl group, halo C₁-C₆ alkylsulfonyl group, C₁-C₆ alkylcarbonyl group, halo C₁-C₆ alkylcarbonyl group, C₁-C₆ alkoxy carbonyl group, phenyl group, substituted phenyl group having at least one, same or different substituents selected from the group consisting of halogen atom, C₁-C₆ alkyl group, halo C₁-C₆ alkyl group, C₁-C₆ alkoxy group, halo C₁-C₆ alkoxy

group, C₁-C₆ alkylthio group, halo C₁-C₆ alkylthio group, C₁-C₆ alkylsulfinyl group, halo C₁-C₆ alkylsulfinyl group, C₁-C₆ alkylsulfonyl group and halo C₁-C₆ alkylsulfonyl group, phenyl C₁-C₄ alkyl group, substituted phenyl C₁-C₄ alkyl group having, on the ring thereof, at least one, same or different substituents selected from the group consisting of halogen atom, C₁-C₆ alkyl group, halo C₁-C₆ alkyl group, C₁-C₆ alkoxy group, halo C₁-C₆ alkoxy group, C₁-C₆ alkylthio group, halo C₁-C₆ alkylthio group, C₁-C₆ alkylsulfinyl group, halo C₁-C₆ alkylsulfinyl group, C₁-C₆ alkylsulfonyl group and halo C₁-C₆ alkylsulfonyl group, phenylcarbonyl group, or substituted phenylcarbonyl group having at least one, same or different substituents selected from the group consisting of halogen atom, C₁-C₆ alkyl group, halo C₁-C₆ alkyl group, C₁-C₆ alkoxy group, halo C₁-C₆ alkoxy group, C₁-C₆ alkylthio group, halo C₁-C₆ alkylthio group, C₁-C₆ alkylsulfinyl group, halo C₁-C₆ alkylsulfinyl group, C₁-C₆ alkylsulfonyl group and halo C₁-C₆ alkylsulfonyl group);

alternatively, Y may be taken conjointly with adjacent carbon atom on the ring to form a fused ring (the fused ring is as defined above), and said fused ring may have at least one, same or different substituents selected from the group consisting of halogen atom, C₁-C₆ alkyl group, halo C₁-C₆ alkyl group, C₁-C₆ alkoxy group, halo C₁-C₆ alkoxy group, C₁-C₆ alkylthio group, halo C₁-C₆ alkylthio group, C₁-C₆ alkylsulfinyl group, halo C₁-C₆ alkylsulfinyl group, C₁-C₆ alkylsulfonyl group, halo C₁-C₆ alkylsulfonyl group, phenyl group, substituted phenyl group having at least one, same or different substituents selected from the group consisting of halogen atom, C₁-C₆ alkyl group, halo C₁-C₆ alkyl group, C₁-C₆ alkoxy group, halo C₁-C₆ alkoxy group, C₁-C₆ alkylthio group, halo C₁-C₆ alkylthio group, C₁-C₆ alkylsulfinyl group, halo C₁-C₆ alkylsulfinyl group, C₁-C₆ alkylsulfonyl group and halo C₁-C₆ alkylsulfonyl group, heterocyclic group (the term heterocyclic group is as defined

above), and substituted heterocyclic group (the term heterocyclic group is as defined above) having at least one, same or different substituents selected from the group consisting of halogen atom, C₁-C₆ alkyl group, halo C₁-C₆ alkyl group, C₁-C₆ alkoxy group, halo C₁-C₆ alkoxy group, C₁-C₆ alkylthio group, halo C₁-C₆ alkylthio group, C₁-C₆ alkylsulfinyl group, halo C₁-C₆ alkylsulfinyl group, C₁-C₆ alkylsulfonyl group and halo C₁-C₆ alkylsulfonyl group;

W represents O, S or N-R¹³ (in this formula, R¹³ is as defined above); and Z¹ and Z² represent oxygen atom or sulfur atom;

provided that (1) when X, R¹ and R³ simultaneously represent hydrogen atom, Z¹ and Z² simultaneously represent oxygen atom, Q represents Q27, and Y is a chlorine atom of 2-position, then R² is not 1,2,2-trimethylpropyl group.

(2) when X, R¹ and R³ simultaneously represent hydrogen atom, Z¹ and Z² simultaneously represent oxygen atom, Q represents Q27 and m is 0, then R² is not 1,2,2-trimethylpropyl group, and

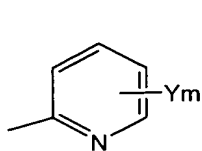
(3) when X, R¹ and R³ simultaneously represent hydrogen atom, Z¹ and Z² simultaneously represent oxygen atom, Q represents Q16 and Y represents methylthio group, then R² is not hydrogen atom and methyl group.

Claim 4. (Amended) A heterocyclic amine derivative represented by the following general formula (IV'):

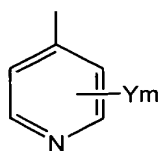


wherein:

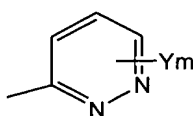
[(1) in cases where Q' represents one of Q26, Q28-Q31 and Q33-Q39,



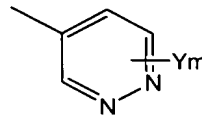
Q26



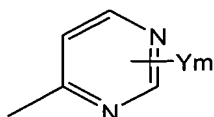
Q28



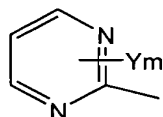
Q29



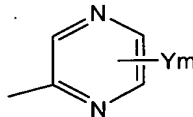
Q30



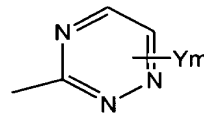
Q31



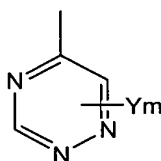
Q33



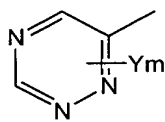
Q34



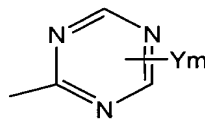
Q35



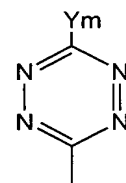
Q36



Q37



Q38

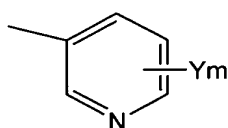


Q39

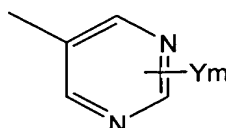
Y, which may be same or different, represents hydrogen atom, halogen atom, C₁-C₆ alkyl group, halo C₁-C₆ alkyl group, C₁-C₆ alkoxy group, halo C₁-C₆ alkoxy group, C₁-C₆ alkylthio group, halo C₁-C₆ alkylthio group, C₁-C₆ alkyl-sulfinyl group, halo C₁-C₆ alkylsulfinyl group, C₁-C₆ alkylsulfonyl group or halo C₁-C₆ alkylsulfonyl group, m represents an integer of 1 to 4, and at least one of Y, of which total number is m, is perfluoro C₂-C₆ alkyl group;

and

(2) in a case where Q' represents Q27 and Q32:



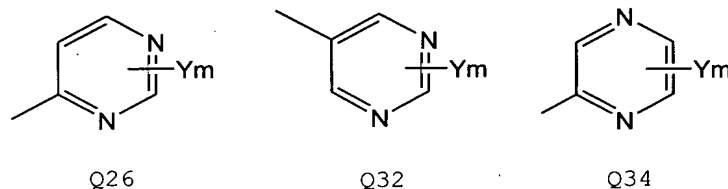
Q27



Q32

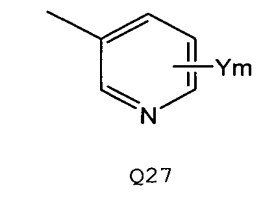
Y, which may be same or different, represents hydrogen atom, halogen atom, C₁-C₆ alkyl group, halo C₁-C₆ alkyl group, C₁-C₆ alkoxy group, halo C₁-C₆ alkoxy group, C₁-C₆ alkylthio group, halo C₁-C₆ alkylthio group, C₁-C₆ alkyl-sulfinyl group, halo C₁-C₆ alkylsulfinyl group, C₁-C₆ alkylsulfonyl group or halo C₁-C₆ alkylsulfonyl group, m represents an integer of 1 to 4, and at least one of Y, of which total number is m, is perfluoro C₂-C₆ alkyl group, halo C₁-C₆ alkoxy group, halo C₁-C₆ alkoxy halo C₁-C₆ alkoxy group or halo C₁-C₆ alkylthio group]

(1) in cases where Q' represents one of Q26, Q32 and Q34,



Y, which may be same or different, represents halogen atom, C₁-C₆ alkyl group, halo C₁-C₆ alkyl group, C₁-C₆ alkoxy group, halo C₁-C₆ alkoxy group, C₁-C₆ alkylthio group, halo C₁-C₆ alkylthio group, C₁-C₆ alkylsulfinyl group, halo C₁-C₆ alkylsulfinyl group, C₁-C₆ alkyl-sulfonyl group or halo C₁-C₆ alkylsulfonyl group, m represents an integer of 1 to 4, and at least one of Y, of which total number is m, is perfluoro C₂-C₆ alkyl group; and

(2) in a case where Q' represents Q27:



Y, which may be same or different, represents halogen atom, C₁-C₆ alkyl group, halo C₁-C₆ alkyl group, C₁-C₆ alkoxy group, halo C₁-C₆ alkoxy group, C₁-C₆ alkylthio

group, halo C₁-C₆ alkylthio group, C₁-C₆ alkylsulfinyl group, halo C₁-C₆ alkylsulfinyl group, C₁-C₆ alkyl-sulfonyl group or halo C₁-C₆ alkylsulfonyl group, m represents an integer of 1 to 4, and at least one of Y, of which total number is m, is perfluoro C₂-C₆ alkyl group, halo C₁-C₆ alkoxy group or halo C₁-C₆ alkylthio group,
provided that Y is not 2,2,2-trifluoroethoxy group.

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